



Water Fund Summary

	WATER CAPITAL PROJECTS					
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Balance Forward @ July 1, 2003	\$1,030,904	\$1,005,586	\$1,008,586	\$1,039,086	\$1,019,586	\$1,062,586
Income:						
Transfer from Operating Fund	\$850,000	\$875,000	\$900,000	\$925,000	\$950,000	\$1,000,000
Balance and Income	\$850,000	\$875,000	\$900,000	\$925,000	\$950,000	\$1,000,000
Expenditures:						
Water	\$4,237,000	\$2,507,000	\$5,232,000	\$3,657,000	\$2,157,000	\$2,157,000
Total Expenditures	\$4,237,000	\$2,507,000	\$5,232,000	\$3,657,000	\$2,157,000	\$2,157,000
Balance (Deficit)	(\$2,356,096)	(\$626,414)	(\$3,323,414)	(\$1,692,914)	(\$187,414)	(\$94,414)
Net Borrowing Bonds Proceeds	\$3,361,682	\$1,635,000	\$4,362,500	\$2,712,500	\$1,250,000	\$1,200,000
Balance Forward	\$1,005,586	\$1,008,586	\$1,039,086	\$1,019,586	\$1,062,586	\$1,105,586



Water Project Detail Summary

SIX-YEAR PROPOSED PROGRAMMING TO BE FINANCED BY THE CITY				
Project Title	FY 2004	FY 2005	FY 2006	FY 2007
WATER				
Abert Water Filter Plant - Filter Renovation	1,800,000	0	0	0
Source of Funding:				
<i>G. O. Bond</i>	1,800,000	0	0	0
Abert Water Plant Sludge Lagoons	0	50,000	150,000	1,500,000
Source of Funding:				
<i>G. O. Bond</i>	0	50,000	150,000	1,500,000
Capitalized Interest	32,000	32,000	32,000	32,000
Source of Funding:				
<i>G. O. Bond</i>	32,000	32,000	32,000	32,000
College Hill Water Filter Plant - Filter Renovation	0	200,000	2,800,000	0
Source of Funding:				
<i>G. O. Bond</i>	0	200,000	2,800,000	0
Distribution System Improvements	750,000	750,000	750,000	750,000
Source of Funding:				
<i>G. O. Bond</i>	750,000	750,000	750,000	750,000
Field Operations Facility	180,000	0	0	0
Source of Funding:				
<i>G. O. Bond</i>	180,000	0	0	0
Large Water Meter Replacement	125,000	125,000	125,000	0
Source of Funding:				
<i>G. O. Bond</i>	125,000	125,000	125,000	0
Water Extensions	200,000	200,000	225,000	225,000
Source of Funding:				
<i>G. O. Bond</i>	200,000	200,000	225,000	225,000
Water Main Replacement - CSO	400,000	400,000	400,000	400,000
Source of Funding:				
<i>G. O. Bond</i>	400,000	400,000	400,000	400,000
Water Tank Rehabilitation	500,000	500,000	500,000	500,000
Source of Funding:				
<i>G. O. Bond</i>	500,000	500,000	500,000	500,000
Water Treatment Plant Improvements	250,000	250,000	250,000	250,000
Source of Funding:				
<i>G. O. Bond</i>	250,000	250,000	250,000	250,000
Total Estimates Submitted 04-09 CIP	\$4,237,000	\$2,507,000	\$5,232,000	\$3,657,000
Source of Funding:				
<i>G. O. Bond</i>	\$4,237,000	\$2,507,000	\$5,232,000	\$3,657,000



		SIX -YEAR ESTIMATED NET COST	EXPENDITURES THROUGH 06/30/02	FY 2003 APPROPRIATION	ESTIMATED COST BEYOND PROGRAM PERIOD	TOTAL ACCUMULATED PROJECT COST
FY 2008	FY 2009					
0	0	1,800,000	200,000		0	\$2,000,000
0	0					
0	0	1,700,000	0	0	0	\$1,700,000
0	0					
32,000	32,000	192,000	0	32,000	0	\$224,000
32,000	32,000					
0	0	3,000,000	0	0	0	\$3,000,000
0	0					
750,000	750,000	4,500,000	Continuing	1,683,796	Continuing	\$6,183,796
750,000	750,000					
0	0	180,000	0	0	0	\$180,000
0	0					
0	0	375,000	0	250,000	0	\$625,000
0	0					
225,000	225,000	1,300,000	Continuing	607,219	Continuing	\$1,907,219
225,000	225,000					
400,000	400,000	2,400,000	Continuing	594,967	Continuing	\$2,994,967
400,000	400,000					
500,000	500,000	3,000,000	Continuing	1,500,000	Continuing	\$4,500,000
500,000	500,000					
250,000	250,000	1,500,000	0	250,000	0	\$1,750,000
250,000	250,000					
\$2,157,000	\$2,157,000	\$19,947,000	\$200,000	\$4,917,982	\$0	\$25,064,982
\$2,157,000	\$2,157,000	\$19,947,000				



Project Title: Abert Water Plant – Filter Renovation
Project Manager(s): Tim Mitchell

Description:

The filters at the Abert Plant, constructed in 1974, will be upgraded. The project will include rehabilitation or replacement of filter media, filter bottoms, troughs, walls surface wash equipment and other equipment including data acquisition (SCADA) equipment.

Timetable:

FY 2004 Q1 through FY 2005 Q2: Architectural/Engineering Services and Improvements.

Location:

Abert Water Filter Plant, Bedford County, Virginia

Status of Project Site:

City Owned

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

None.

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated
	<u>Prior:</u>	<u>Beyond:</u>	<u>Project Cost:</u>
	\$200,000	0	\$2,000,000

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
Construction	1,800,000						\$1,800,000
Totals	\$1,800,000						\$1,800,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	1,800,000						\$1,800,000
Pay-As-You-Go							
Other							
Totals	\$1,800,000						\$1,800,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Abert Water Plant – Sludge Lagoons
Project Manager(s): Tim Mitchell

Description:

Water filtration waste by-products at the plant are now captured in several lagoons. The lagoons are reaching their maximum capacity. Alternatives to sludge disposal and subsequent construction of the improvements will be needed.

Timetable:

FY 2005 Q1-4: Study
 FY 2006 Q1-4: Design
 FY 2007Q1 through FY 2008 Q2: Construction

Location:

Abert Water Filter Plant, Bedford County, Virginia

Status of Project Site:

City Owned

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

Undetermined until study is performed.

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated
	<u>Prior:</u>	<u>Beyond:</u>	<u>Project Cost:</u>
	0	0	\$1,700,000

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
Construction		50,000	150,000				\$200,000
Architect/Engineering				1,500,000			\$1,500,000
Totals		\$50,000	\$150,000	\$1,500,000			\$1,700,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond		50,000	150,000	1,500,000			\$1,700,000
Pay-As-You-Go							
Other							
Totals		\$50,000	\$150,000	\$1,500,000			\$1,700,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: College Hill Water Filter Plant – Filter Renovation
Project Manager(s): Tim Mitchell

Description:

Complete renovation of the six multi-layered water filters at the College Hill Water Plant..

Timetable:

FY 2005 Q1-4: Architect/Engineering Services
 FY 2006 Q1 through FY 2007 Q2: Improvements

Location:

College Hill Water Treatment Plant

Status of Project Site:

City Owned

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

N/A

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated Project Cost:
	<u>Prior:</u>	<u>Beyond:</u>	
	0	0	\$3,000,000

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
Architect/Engineering		200,000					\$200,000
Improvements			2,800,000				\$2,800,000
Totals		\$200,000	\$2,800,000				\$3,000,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond		200,000	2,800,000				\$3,000,000
Pay-As-You-Go							
Other							
Totals		\$200,000	\$2,800,000				\$3,000,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Distribution System Improvements
Project Manager(s): Tim Mitchell

Description:

Construction of new or replacement of existing water mains, tie-ins, pump station improvements, valves, fire hydrants.

Timetable:

On an as-needed basis

Location:

Various locations in City

Status of Project Site:

N/A

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

N/A

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated
	<u>Prior:</u>	<u>Beyond:</u>	<u>Project Cost:</u>
	Continuing	Continuing	Continuing

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
City Engineering	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Consultant Services	40,000	40,000	40,000	40,000	40,000	40,000	\$240,000
Construction	550,000	550,000	550,000	550,000	550,000	550,000	\$3,300,000
Inspection	35,000	35,000	35,000	35,000	35,000	35,000	\$210,000
Contingency	75,000	75,000	75,000	75,000	75,000	75,000	\$450,000
Totals	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$4,500,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	750,000	750,000	750,000	750,000	750,000	750,000	\$4,500,000
Pay-As-You-Go							
Other							
Totals	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$4,500,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Field Operations Facility
Project Manager(s): Tim Mitchell

Description:

Utility field operations must be relocated due to the construction of a new treatment process building at the College Hill Water Plant. Consolidation of work area is desired.

Timetable:

FY 2004 Q1-2: New Building Construction

Location:

Site is located adjacent to the Wastewater Treatment Facility on Concord Turnpike.

Status of Project Site:

City Owned.

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

Undetermined.

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated
	<u>Prior:</u>	<u>Beyond:</u>	<u>Project Cost:</u>
	0	0	\$180,000

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
Construction	180,000						\$180,000
Totals	\$180,000						\$180,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	180,000						\$180,000
Pay-As-You-Go							
Other							
Totals	\$180,000						\$180,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Large Water Meter Replacement
Project Manager(s): Tim Mitchell, Joe Dawson

Description:

Program for replacement of large (3" and over) water meters.

Timetable:

FY 2004 Q1 through FY 2006 Q4: Meter Replacement

Location:

Various

Status of Project Site:

N/A

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

None

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated
	<u>Prior:</u>	<u>Beyond:</u>	<u>Project Cost:</u>
	\$250,000	0	\$625,000

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
Equipment	125,000	125,000	125,000				\$375,000
Totals	\$125,000	\$125,000	\$125,000				\$375,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	125,000	125,000	125,000				\$375,000
Pay-As-You-Go							
Other							
Totals	\$125,000	\$125,000	\$125,000				\$375,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Water Extensions
Project Manager(s): Lee Newland

Description:

Extension of water lines are requested by petition process. These requests may include existing non-served properties, commercial development and new residential subdivisions. Also for reimbursement of developer costs to construct City water lines per City Code.

Timetable:

As needed

Location:

Various location within City

Status of Project Site:

N/A

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

N/A

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated
	<u>Prior:</u>	<u>Beyond:</u>	<u>Project Cost:</u>
	Continuing	Continuing	Continuing

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
City Engineering	15,000	15,000	15,000	15,000	15,000	15,000	\$90,000
Construction	160,000	160,000	185,000	185,000	185,000	185,000	\$1,060,000
Inspection	5,000	5,000	5,000	5,000	5,000	5,000	30,000
Contract Administration	5,000	5,000	5,000	5,000	5,000	5,000	30,000
Contingency	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$90,000
Totals	\$200,000	\$200,000	\$225,000	\$225,000	\$225,000	\$225,000	\$1,300,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	200,000	200,000	225,000	225,000	225,000	225,000	\$1,300,000
Pay-As-You-Go							
Other							
Totals	\$200,000	\$200,000	\$225,000	\$225,000	\$225,000	\$225,000	\$1,300,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Water Main Replacement – Combined Sewer Overflow (CSO)
Project Manager(s): Greg Poff

Description:

Replacement of existing small water lines (1", 1-1/2, 2" and 4") located throughout the City with 8-inch diameter water main lines. Replacement is in conjunction with construction of CSO Projects.

Timetable:

Improvements to be scheduled in conjunction with street overlays, new project development, replacement of existing waterline facilities and Combined Sewer Separation Projects.

Location:

Various locations in City

Status of Project Site:

City Owned

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

N/A

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period		Total Accumulated
	<u>Prior:</u>	<u>Beyond:</u>	<u>Project Cost:</u>
	Continuing	Continuing	Continuing

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
City Engineering	30,000	30,000	30,000	30,000	30,000	30,000	\$180,000
Construction	280,000	280,000	280,000	280,000	280,000	280,000	\$1,680,000
Architect/Engineering	30,000	30,000	30,000	30,000	30,000	30,000	\$180,000
Contingency	60,000	60,000	60,000	60,000	60,000	60,000	\$360,000
Totals	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,400,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	400,000	400,000	400,000	400,000	400,000	400,000	\$2,400,000
Pay-As-You-Go							
Other							
Totals	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,400,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Water Tank Rehabilitation
Project Manager(s): Tim Mitchell

Description:

Annual program to maintain the City's water storage tanks to Virginia Department of Health Standards.

Timetable:

FY 2004: Fort Hill Tank #1
 FY 2005: Fort Hill Tank #2
 FY 2006: Coagulation Tank #1, College Hill Water Plant
 FY 2007: Coagulation Tank #2, College Hill Water Plant
 FY 2008: College Hill Tank Repainting
 FY 2009: Leesville Road and Candler's Mountain Tank Repainting

Location:

Various locations

Status of Project Site:

City Owned

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

N/A

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period	Total Accumulated
	<u>Prior:</u>	<u>Project Cost:</u>
	Continuing	Continuing

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
City Engineering	10,000	10,000	10,000	10,000	10,000	10,000	\$60,000
Consultant Services	40,000	40,000	40,000	40,000	40,000	40,000	\$240,000
Construction	450,000	450,000	450,000	450,000	450,000	450,000	\$2,700,000
Totals	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	500,000	500,000	\$500,000	500,000	500,000	500,000	\$3,000,000
Pay-As-You-Go							
Other							
Totals	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



Project Title: Water Treatment Plant Improvements
Project Manager(s): Tim Mitchell

Description:

General repairs, replacement or renovation to major plant process equipment or structures at the Abert and College Hill Water plants. This money is set aside for unanticipated expenditures for major capital equipment replacement as failures occur to maintain compliance with regulatory requirements. FY 2004 consists mainly of implementation of security at highest level and Satellite CL(2) Injection Points(3).

Timetable:

As needed.

Location:

Abert Water Treatment Plant, Bedford County, Virginia
 College Hill Water Treatment Plant, Lynchburg, Virginia

Status of Project Site:

City Owned

Operating Budget Impact (Overall operating expenses and projected staffing requirements):

N/A

FY 2004-2009 Program Period Funding:	Funding Outside of Program Period	Total Accumulated
	<u>Prior:</u>	<u>Project Cost:</u>
	Continuing	Continuing

Six Year Proposed Funding to be Financed by the City

Activity Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Program Period Estimate
Architect/Engineering	50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Improvements – Water	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Totals	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,500,000

Sources of Funding/Cash Needs

Sources of Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total Funding
G. O. Bond	250,000	250,000	250,000	250,000	250,000	250,000	\$1,500,000
Pay-As-You-Go							
Other							
Totals	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,500,000

Sources of Program Funding FY 2004-2009

Local: 100%

State/Federal:



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